USGS science for a changing world

Earthquake Shaking — Green Alert

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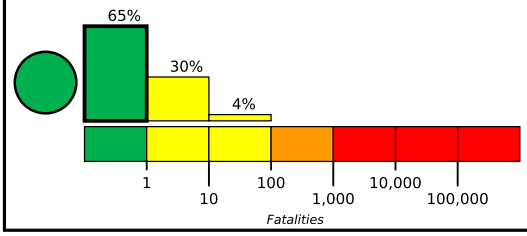
M 5.4, 9 km E of Yayladere, Turkey

Origin Time: 2021-06-25 18:28:38 UTC (Fri 21:28:38 local)
Location: 39.2182° N 40.1766° E Depth: 10.0 km

PAGER Version 5

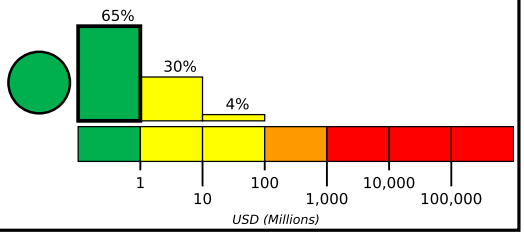
Created: 1 day, 23 hours after earthquake

Estimated Fatalities



Green alert for shaking-related fatalities and economic losses. There is a low likelihood of casualties and damage.

Estimated Economic Losses

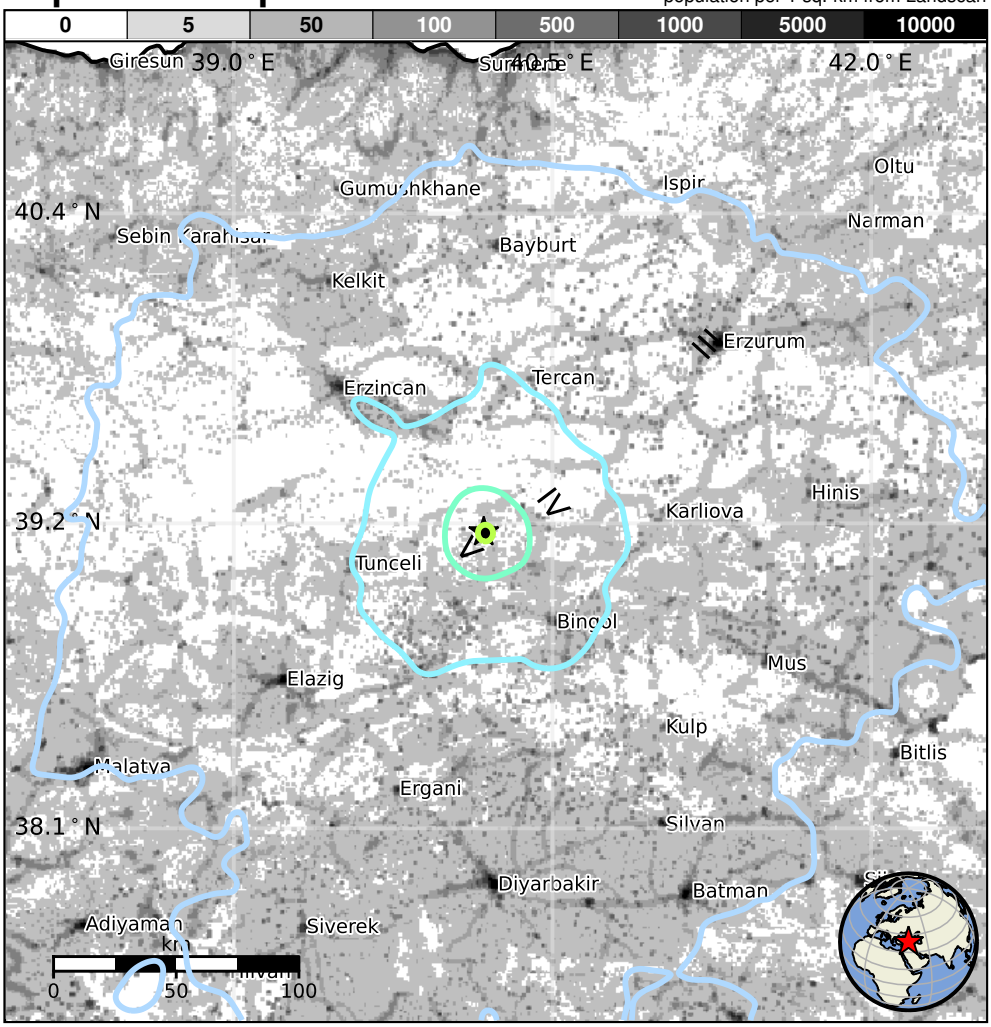


Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k=x1000)		–*	10,262k	414k	16k	1k	0	0	0	0
ESTIMATED MODIFIED MERCALLI INTENSITY		I	II-III	IV	V	VI	VII	VIII	IX	X+
PERCEIVED SHAKING		Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
POTENTIAL DAMAGE	Resistant Structures	None	None	None	V. Light	Light	Moderate	Mod./Heavy	Heavy	V. Heavy
	Vulnerable Structures	None	None	None	Light	Moderate	Mod./Heavy	Heavy	V. Heavy	V. Heavy

*Estimated exposure only includes population within the map area.

Population Exposure



Structures

Overall, the population in this region resides in structures that are a mix of vulnerable and earthquake resistant construction. The predominant vulnerable building types are adobe block and dressed stone/block masonry construction.

Historical Earthquakes

Date (UTC)	Dist. (km)	Mag.	Max MMI(#)	Shaking Deaths
2004-07-30	326	4.8	VI(2k)	1
1976-03-25	304	4.8	VI(1k)	1
1988-12-07	385	6.7	IX(50k)	25k

Recent earthquakes in this area have caused secondary hazards such as landslides that might have contributed to losses.

Selected City Exposure

from GeoNames.org

MMI	City	Population
V	Can	<1k
V	Yayladere	4k
IV	Kasaba	<1k
IV	Sancak	<1k
IV	Karakocan	30k
IV	Adakli	<1k
III	**Elazig**	**298k**
III	**Erzurum**	**421k**
III	**Diyarbakir**	**645k**
III	**Batman**	**382k**
III	**Malatya**	**442k**

bold cities appear on map. (k=x1000)

PAGER content is automatically generated, and only considers losses due to structural damage. Limitations of input data, shaking estimates, and loss models may add uncertainty.

https://earthquake.usgs.gov/earthquakes/eventpage/us6000epst#pager

Event ID: us6000epst